500,873

Translation

Rec'd PCT/PTO 07 JUL 2004 10/500873

PCT Application
PCT/JP2003/000351

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 110201394971	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/JP03/00351	International filing date (*day/month/year*) 17 January 2003 (17.01.03)	Priority date (*day/month/year*) 18 January 2002 (18.01.02)
International Patent Classification (IPC) or national classification and IPC G01L 19/14, 9/00, H01L 23/29, 23/31, 29/84, B29C 45/14		
Applicant HITACHI, LTD.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of _____ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 26 February 2003 (26.02.03)	Date of completion of this report 07 November 2003 (07.11.2003)
Name and mailing address of the IPEA/JP Facsimile No.	Authorized officer Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/JP03/00351

I. Basis of the report

1. With regard to the **elements** of the international application:*

☒ the international application as originally filed

☐ the description:

pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____

☐ the claims:

pages _____, as originally filed
pages _____, as amended (together with any statement under Article 19
pages _____, filed with the demand
pages _____, filed with the letter of _____

☐ the drawings:

pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____

☐ the sequence listing part of the description:

pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.
These elements were available or furnished to this Authority in the following language _____ which is:

☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).

☐ the language of publication of the international application (under Rule 48.3(b)).

☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages _____
☐ the claims, Nos. _____
☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* *Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).*

** *Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.*

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-14	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-14	NO
Industrial applicability (IA)	Claims	1-14	YES
	Claims		NO

2. Citations and explanations

Document 1: JP 9-323337 A (Nippon Petrochemicals Co., Ltd.), 16 December 1997

Document 2: JP 8-94466 A (Miyota Co., Ltd.), 12 April 1996

Document 3: JP 7-294351 A (Fuji Electric Co., Ltd.), 10 November 1995

Claims 1 to 4

It would be easy for a person skilled in the art to apply the method set forth in document 2 to the pressure sensor described in document 3 (see fig. 2 in particular), wherein the metal lead material for connectors is disposed almost in the center of the outer resin case of the gauge case, and a semiconductor sensor which converts the pressure into an electric signal is housed inside part of the opening of said resin case, to fill an anaerobic, high-permeability adhesive into the gap between the aforementioned resin case and metal lead material.

Claims 5 to 15

Document 1 sets forth an electronic component wherein metal lead material and resin are integrally molded, wherein an anaerobic adhesive is filled into the gap between said metal lead material and resin. Document 2 indicates that after integrating metal lead material and

plastic, said integrated body is immersed into anaerobic adhesive, a vacuum is applied (at a pressure lower than atmospheric pressure), thereby removing bubbles from the gap between said metal lead material and plastic while filling said gap with anaerobic adhesive, and then exposed to normal pressure (a second pressure higher than the first pressure), and rinsed after lifting out of the anaerobic adhesive. When filling the gap between plastic and metal lead material with anaerobic adhesive, it would be easy for a person skilled in the art to use the method set forth in document 2 to fill the aforementioned gap with anaerobic adhesive.